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Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Extending OLAP querying to external object databases

Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen

November 2000 Proceedings of the ninth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: 📆 pdf(168.32 KB) Additional Information: full citation, references, citings, index terms

Hierarchies and relative operators in the OLAP environment

Elaheh Pourabbas, Maurizio Rafanelli

March 2000 ACM SIGMOD Record, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(585.68 KB) Additional Information: full citation, abstract, citings, index terms

In the last few years, numerous proposals for modelling and querying Multidimensional Databases (MDDB) are proposed. A rigorous classification of the different types of hierarchies is still an open problem. In this paper we propose and discuss some different types of hierarchies within a single dimension of a cube. These hierarchies divide in different levels of aggregation a single dimension. Depending on them, we discuss the characterization of some OLAP operators that refer to hierarchie ...

OLAP and statistical databases: similarities and differences Arie Shoshani



## May 1997 Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal

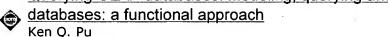
March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional online transaction processing applications. This paper provides an overview ...

6 Querying OLAP databases: Modeling, querying and reasoning about OLAP



November 2005 Proceedings of the 8th ACM international workshop on Data warehousing and OLAP DOLAP '05

Publisher: ACM Press

Full text available: 🔁 pdf(257.43 KB) Additional Information: full citation, abstract, references, index terms

We propose a new functional framework for modeling, querying and reasoning about OLAP databases. The framework represents data (data cubes and dimensional hierarchies) and querying constructs as first-order and second-order functional symbols respectively. A polymorphic attribute-based type system is used to annotate the functional symbols with proper type information. Furthermore, semantic knowledge about the functional symbols, such as the properties of dimensional hierarchical structures and ...

Keywords: OLAP, query-language, summarizability

OLAP: An analysis of additivity in OLAP systems

John Horner, Il-Yeol Song, Peter P. Chen

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(322.41 KB) Additional Information: full citation, abstract, references, index terms

Accurate summary data is of paramount concern in data warehouse systems; however, there have been few attempts to completely characterize the ability to summarize measures. The sum operator is the typical aggregate operator for summarizing the large amount of data in these systems. We look to uncover and characterize potentially inaccurate summaries resulting from aggregating measures using the sum operator. We discuss the effect of classification hierarchies, and non-, semi-, and fully- addi ...

Keywords: OLAP, additivity, data warehouse, metadata, summarization

Data access performance in a large and dynamic pharmaceutical drug candidate



## database

Zina Ben-Miled, Yang Liu, Michael Bem, Robert Jones, Robert Oppelt, Samuel Milosevich, Dave Powers, Omran Bukhres

November 2000 Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society Full text available: pdf(252.19 KB)

Additional Information: full citation, abstract, references, index terms

An explosion in the amount of data generated through chemical and biological experimentation has been observed in recent years. This rapid proliferation of vast amounts of data has led to a set of cheminformatics and bioinformatics applications that manipulate dynamic, heterogeneous and massive data. An example of such applications in the pharmaceutical industry is the computational process involved in the early discovery of lead drug candidates for a given target disease. This computationa ...

**Keywords**: cheminformatics, bioinformatics, multithreading, SMP, databases

Searching for dependencies at multiple abstraction levels

Toon Calders, Raymond T. Ng, Jef Wijsen

September 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 3

**Publisher: ACM Press** 

Full text available: pdf(411.24 KB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

The notion of roll-up dependency (RUD) extends functional dependencies with generalization hierarchies. RUDs can be applied in OLAP and database design. The problem of discovering RUDs in large databases is at the center of this paper. An algorithm is provided that relies on a number of theoretical results. The algorithm has been implemented; results on two real-life datasets are given. The extension of functional dependency (FD) with roll-ups turns out to capture meaningful rules that are outsi ...

Keywords: Data mining, functional dependencies, knowledge discovery, online analytical processing

10 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

11 Progressive skyline computation in database systems

Dimitris Papadias, Yufei Tao, Greg Fu, Bernhard Seeger

March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

Publisher: ACM Press



Full text available: pdf(913.10 KB) Additional Information: full citation, abstract, references, index terms

The skyline of a d-dimensional dataset contains the points that are not dominated by any other point on all dimensions. Skyline computation has recently received considerable attention in the database community, especially for progressive methods that can quickly return the initial results without reading the entire database. All the existing algorithms, however, have some serious shortcomings which limit their applicability in practice. In this article we develop branch-and-bound skyline ...

Keywords: Skyline query, branch-and-bound algorithms, multidimensional access methods

12 Research session: OLAP: OLAP over uncertain and imprecise data

Doug Burdick, Prasad M. Deshpande, T. S. Jayram, Raghu Ramakrishnan, Shivakumar Vaithyanathan

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: Topdf(434.01 KB) Additional Information: full citation, abstract, references, index terms

We extend the OLAP data model to represent data ambiguity, specifically imprecision and uncertainty, and introduce an allocation-based approach to the semantics of aggregation queries over such data. We identify three natural query properties and use them to shed light on alternative query semantics. While there is much work on representing and querying ambiguous data, to our knowledge this is the first paper to handle both imprecision and uncertainty in an OLAP setting.

13 Database theory, technology and applications (DTTA): Creation and management of



versions in multiversion data warehouse

Bartosz B□bel, Johann Eder, Christian Koncilia, Tadeusz Morzy, Robert Wrembel March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(516.99 KB)

A data warehouse (DW) provides an information for analytical processing, decision making, and data mining tools. On the one hand, the structure and content of a data warehouse reflects a real world, i.e. data stored in a DW come from real production systems. On the other hand, a DW and its tools may be used for predicting trends and simulating a virtual business scenarios. This activity is often called the what-if analysis. Traditional DW systems have static structure of their schemas and relati ...

**Keywords**: data warehouse, integrity constraints, versioning

14 A case for dynamic view management

Yannis Kotidis, Nick Roussopoulos

December 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(892.57 KB) terms, review

Materialized aggregate views represent a set of redundant entities in a data warehouse that are frequently used to accelerate On-Line Analytical Processing (OLAP). Due to the complex structure of the data warehouse and the different profiles of the users who submit queries, there is need for tools that will automate and ease the view selection and management processes. In this article we present DynaMat, a system that manages dynamic collections of materialized aggregate views in a data warehous ...

Keywords: Data cube, OLAP, data warehousing, materialized views

15 Compressed data cubes for OLAP aggregate query approximation on continuous



dimensions

Jayavel Shanmugasundaram, Usama Fayyad, P. S. Bradley

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(1.12 MB)

Additional Information: full citation, references, citings, index terms

**Keywords**: OLAP, approximate query answering, clustering, data cubes, data mining, density estimation

16 Querying OLAP databases: A personalization framework for OLAP queries



Ladjel Bellatreche, Arnaud Giacometti, Patrick Marcel, Hassina Mouloudi, Dominique Laurent
November 2005 Proceedings of the 8th ACM international workshop on Data
warehousing and OLAP DOLAP '05

Publisher: ACM Press

Full text available: pdf(227.64 KB) Additional Information: full citation, abstract, references, index terms

OLAP users heavily rely on visualization of query answers for their interactive analysis of massive amounts of data. Very often, these answers cannot be visualized entirely and the user has to navigate through them to find relevant facts. In this paper, we propose a framework for personalizing OLAP queries. In this framework, the user is asked to give his (her) preferences and a visualization constraint, that can be for instance the limitations imposed by the device used to display ...

Keywords: OLAP, multidimensional databases, personalization, preferences, visualization

17 SchemaSQL: An extension to SQL for multidatabase interoperability



Laks V. S. Lakshmanan, Fereidoon Sadri, Subbu N. Subramanian
December 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(435.89 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

We provide a principled extension of SQL, called *SchemaSQL*, that offers the capability of uniform manipulation of data and schema in relational multidatabase systems. We develop a precise syntax and semantics of *SchemaSQL* in a manner that extends traditional SQL syntax and semantics, and demonstrate the following. (1) *SchemaSQL* retains the flavor of SQL while supporting querying of both data and schema. (2) It can be used to transform data in a database in a structure substa ...

**Keywords**: Information integration, SchemaSQL, multidatabase systems, restructuring views, schematic heterogeneity

18 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB)

Additional Information: full citation, index terms



Data warehousing and OLAP: A fast filtering scheme for large database cleansing

Sam Y. Sung, Zhao Li, Peng Sun



Publisher: ACM Press

Full text available: 7 pdf(159.98 KB) Additional Information: full citation, abstract, references, index terms

Existing data cleansing methods are costly and will take very long time to cleanse large databases. Since large databases are common nowadays, it is necessary to reduce the cleansing time. Data cleansing consists of two main components, detection method and comparison method. In this paper, we first propose a simple and fast comparison method, TI-Similarity, which reduces the time for each comparison. Based on TI-Similarity, we propose a new detection method, RAR, to further reduce ...

**Keywords:** data cleansing, duplicate elimination, filtering scheme, similarity

20 Research session 5: data mining / transaction management; Multi-structural



databases

Ronald Fagin, R. Guha, Ravi Kumar, Jasmine Novak, D. Sivakumar, Andrew Tomkins June 2005 Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(313.14 KB) Additional Information: full citation, abstract, references

We introduce the Multi-Structural Database, a new data framework to support efficient analysis of large, complex data sets. An instance of the model consists of a set of data objects, together with a schema that specifies segmentations of the set of data objects according to multiple distinct criteria (e.g., into a taxonomy based on a hierarchical attribute). Within this model, we develop a rich set of analytical operations and design highly efficient algorithms for these opera ...

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A multidimensional modeling approach for OLAP within the framework of the

relational model based on quotient relations

O. Mangisengi, A. M. Tjoa

November 1998 Proceedings of the 1st ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(645.72 KB) Additional Information: full citation, references, index terms

OLAP and statistical databases: similarities and differences

Arie Shoshani

May 1997 Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: R pdf(1.66 MB)

Additional Information: full citation, references, citings, index terms

Data warehousing and OLAP: Semantic-based delivery of OLAP summary tables in



wireless environments

Mohamed A. Sharaf, Panos K. Chrysanthis

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(251.10 KB)

Additional Information: full citation, abstract, references, citings, index

With the rapid growth in mobile and wireless technologies and the availability, pervasiveness and cost effectiveness of wireless networks, mobile computers are quickly becoming the normal front-end devices for accessing enterprise data. In this paper, we are addressing the issue of efficient delivery of business decision support data in the form of summary tables to mobile clients equipped with OLAP front-end tools. Towards this, we propose a new on-demand scheduling algorithm, called SBS ...

**Keywords:** broadcast pull, broadcast scheduling, mobile computing

4 Tables as a paradigm for querying and restructuring (extended abstract)



Marc Gyssens, Laks V. S. Lakshmanan, Iyer N. Subramanian

June 1996 Proceedings of the fifteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

5 Industrial session: data warehousing and data mining: Bridging the gap between OLAP and SQL

Jens-Peter Dittrich, Donald Kossmann, Alexander Kreutz

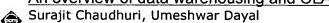
August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(409.18 KB) Additional Information: full citation, abstract, references, index terms

In the last ten years, database vendors have invested heavily in order to extend their products with new features for decision support. Examples of functionality that has been added are top N [2], ranking [13, 7], spreadsheet computations [19], grouping sets [14], data cube [9], and moving sums [15] in order to name just a few. Unfortunately, many modern OLAP systems do not use that functionality or replicate a great deal of it in addition to other database-related functionality. In fact, the ga ...

<sup>6</sup> An overview of data warehousing and OLAP technology



March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional online transaction processing applications. This paper provides an overview ...

<sup>7</sup> A powerful and SQL-compatible data model and query language for OLAP



January 2002 Australian Computer Science Communications, Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 CRPITS '02, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper we present the SQLM OLAP data model, formal algebra, and query language that, unlike current OLAP data models and languages, are both *powerful*, meaning that they support irregular dimension hierarchies, automatic aggregation of data, and correct aggregation of data, and *SQL-compatible*, allowing seamless integration with relational technology. We also consider the requirements to the data model posed by integration of OLAP data with external XML data. ...

**Keywords**: OLAP, data integration, data models, multidimensional databases, query languages

8 Heuristic optimization of OLAP queries in multidimensionally hierarchically clustered



databases

Dimitri Theodoratos, Aris Tsois

November 2001 Proceedings of the 4th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, citings, index terms

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple onedimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform one-dimensiona ...

9 A survey of logical models for OLAP databases



Panos Vassiliadis, Timos Sellis

December 1999 ACM SIGMOD Record, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(604.36 KB) Additional Information: full citation, abstract, citings, index terms

In this paper, we present different proposals for multidimensional data cubes, which are the basic logical model for OLAP applications. We have grouped the work in the field in two categories: commercial tools (presented along with terminology and standards) and academic efforts. We further divide the academic efforts in two subcategories: the relational model extensions and the cube-oriented approaches. Finally, we attempt a comparative analysis of the various efforts.

10 Extending complex ad-hoc OLAP



Theodore Johnson, Damianos Chatziantoniou

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, citings, index terms

Large scale data analysis and mining activities require sophisticated information extraction queries. Many queries require complex aggregation, and many of these aggregates are non-distributive. Conventional solutions to this problem involve defining User Defined Aggregate Functions (UDAFs). However, the use of UDAFs entails several problems. Defining a new UDAF can be a significant burden for the user, and optimizing queries involving UDAFs is difficult because of the "black box&rdqu ...

11 Capturing summarizability with integrity constraints in OLAP



Carlos A. Hurtado, Claudio Gutierrez, Alberto O. Mendelzon

September 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(710.79 KB) Additional Information: full citation, abstract, references, index terms

In multidimensional data models intended for online analytic processing (OLAP), data are viewed as points in a multidimensional space. Each dimension has structure, described by a directed graph of categories, a set of members for each category, and a child/parent relation between members. An important application of this structure is to use it to infer summarizability, that is, whether an aggregate view defined for some category can be correctly derived from a set of precomputed views defined f ...

Keywords: OLAP, data warehousing, integrity constraints, query-optimization, summarizability

12 OLAP, relational, and multidimensional database systems

George Colliat

September 1996 ACM SIGMOD Record, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(355.59 KB) Additional Information: full citation, citings, index terms

13 Achieving scalability in OLAP materialized view selection

Thomas P. Nadeau, Toby J. Teorey

November 2002 Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(347.21 KB)

Additional Information: full citation, abstract, references, citings, index terms

The goal of on-line analytical processing (OLAP) is to quickly answer queries from large amounts of data residing in a data warehouse. Materialized view selection is an optimization problem encountered in OLAP systems. Published work on the problem of materialized view selection presents solutions scalable in the number of possible views. However, the number of possible views is exponential relative to the number of database dimensions. A truly scalable solution must be polynomial time relative ...

Keywords: OLAP, OLAP performance, data warehouse, materialized views, view selection

14 Query and view processing: Aggregate queries in peer-to-peer OLAP

Mauricio Minuto Espil, Alejandro A. Vaisman

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(375.80 KB) Additional Information: full citation, abstract, references, index terms

A peer-to-peer (P2P) data management system consists essentially in a network of peer systems, each maintaining full autonomy over its own data resources. Data exchange between peers occurs when one of them, in the role of a local peer, needs data available in other nodes, denoted the acquaintances of the local peer. No global schema is assumed to exist for any data under this computing paradigm. Henceforth, data provided by an acquaintance of a local peer must be adapted, in a manner that an ...

Keywords: OLAP, P2P computing, data warehousing

Online analytic processing (OLAP): Spreadsheets in RDBMS for OLAP

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Gregory Dorman, Nathan Folkert, Abhinav Gupta, Lei Shen, Sankar Subramanian

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(182.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

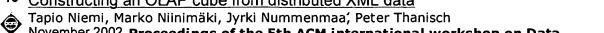
One of the critical deficiencies of SQL is lack of support for n-dimensional array-based computations which are frequent in OLAP environments. Relational OLAP (ROLAP)

http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=69179521&CFTOKEN=477...

1/10/06

applications have to emulate them using joins, recently introduced SQL Window Functions [18] and complex and inefficient CASE expressions. The designated place in SQL for specifying calculations is the SELECT clause, which is extremely limiting and forces the user to generate queries using nested views, subqueries and complex joins ...

16 Constructing an OLAP cube from distributed XML data



November 2002 Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(200.01 KB) Additional Information: full citation, abstract, references, index terms

On-Line Analytical Processing (OLAP) is a powerful method for analysing large data warehouse data. Typically, the data for an OLAP database is collected from a set of data repositories such as e.g. operational databases. This data set is often huge, and it may not be known in advance what data is required and when to perform the desired data analysis tasks. Sometimes it may happen that some parts of the data are only needed occasionally. Therefore, keeping the OLAP database constantly up-to-date ...

Keywords: OLAP, XML, distributed data warehousing

17 OLAP: Evaluating XML-extended OLAP queries based on a physical algebra

Xuepeng Yin, Torben Bach Pedersen

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(206.65 KB) Additional Information: full citation, abstract, references, index terms

In today's OLAP systems, integrating fast changing data, e.g., stock quotes, physically into a cube is complex and time consuming. The widespread use of XML makes it very possible that this data is available in XML format on the WWW. Thus, making XML data logically federated with OLAP systems is desirable. In this paper, we extend previous work on the logical federation of OLAP and XML data sources by presenting a simplified query semantics, a physical query algebra and a robust OLAP-XML quer ...

**Keywords**: OLAP, XML, data integration, physical algebra, query semantics

18 CubiST: a new algorithm for improving the performance of ad-hoc OLAP queries

Lixin Fu. Joachim Hammer

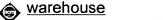
November 2000 Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: 📆 pdf(296.08 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, data cube, data warehouse, index structure, query optimization, query processing

19 Query processing: Spatial hierarchy and OLAP-favored search in spatial data



Fangyan Rao, Long Zhang, Xiu Lan Yu, Ying Li, Ying Chen November 2003 Proceedings of the 6th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: Topdf(197.48 KB) Additional Information: full citation, abstract, references, index terms

Data warehouse and Online Analytical Processing(OLAP) play a key role in business intelligent systems. With the increasing amount of spatial data stored in business database, how to utilize these spatial information to get insight into business data from the geo-spatial point of view is becoming an important issue of data warehouse and OLAP. However, traditional data warehouse and OLAP tools can not fully exploit spatial data in coordinates because multi-dimensional spatial data does not have im ...

**Keywords**: spatial OLAP, spatial data warehouse, spatial hierarchy

20 Online analytic processing (OLAP): QC-trees: an efficient summary structure for



semantic OLAP

Laks V. S. Lakshmanan, Jian Pei, Yan Zhao

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(375.81 KB)

Additional Information: full citation, abstract, references, citings, index terms

Recently, a technique called quotient cube was proposed as a summary structure for a data cube that preserves its semantics, with applications for online exploration and visualization. The authors showed that a quotient cube can be constructed very efficiently and it leads to a significant reduction in the cube size. While it is an interesting proposal, that paper leaves many issues unaddressed. Firstly, a direct representation of a quotient cube is not as compact as possible and thus still wast ...

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Simultaneous optimization and evaluation of multiple dimensional queries



Yihong Zhao, Prasad M. Deshpande, Jeffrey F. Naughton, Amit Shukla

June 1998 ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.52 MB)

Additional Information: full citation, abstract, references, citings, index terms

Database researchers have made significant progress on several research issues related to multidimensional data analysis, including the development of fast cubing algorithms, efficient schemes for creating and maintaining precomputed group-bys, and the design of efficient storage structures for multidimensional data. However, to date there has been little or no work on multidimensional query optimization. Recently, Microsoft has proposed "OLE DB for OLAP" as a standard multidime ...

2 Heuristic optimization of OLAP queries in multidimensionally hierarchically clustered



databases

Dimitri Theodoratos, Aris Tsois

November 2001 Proceedings of the 4th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, citings, index terms

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple one-dimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform onedimensiona ...

Extending complex ad-hoc OLAP

Theodore Johnson, Damianos Chatziantoniou

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Large scale data analysis and mining activities require sophisticated information extraction queries. Many queries require complex aggregation, and many of these aggregates are non-distributive. Conventional solutions to this problem involve defining User Defined Aggregate Functions (UDAFs). However, the use of UDAFs entails several problems. Defining a new UDAF can be a significant burden for the user, and optimizing queries involving UDAFs is difficult because of the "black box&rdqu ...

4 Optimizing multiple dimensional queries simultaneously in multidimensional databases

Weifa Liang, Maria E. Orlowska, Jeffrey X. Yu

February 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(269.57 KB) Additional Information: full citation, abstract, citings, index terms

Some significant progress related to multidimensional data analysis has been achieved in the past few years, including the design of fast algorithms for computing datacubes, selecting some precomputed group-bys to materialize, and designing efficient storage structures for multidimensional data. However, little work has been carried out on multidimensional query optimization issues. Particularly the response time (or evaluation cost) for answering several related dimensional queries simultaneous ...

Keywords: Data warehousing, MDDBs, Multiple dimensional query optimization, OLAP, Query modeling

5 Data warehousing and OLAP: Semantic-based delivery of OLAP summary tables in



wireless environments

Mohamed A. Sharaf, Panos K. Chrysanthis

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

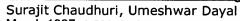
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(251.10 KB)

With the rapid growth in mobile and wireless technologies and the availability, pervasiveness and cost effectiveness of wireless networks, mobile computers are quickly becoming the normal front-end devices for accessing enterprise data. In this paper, we are addressing the issue of efficient delivery of business decision support data in the form of summary tables to mobile clients equipped with OLAP front-end tools. Towards this, we propose a new on-demand scheduling algorithm, called SBS ...

**Keywords**: broadcast pull, broadcast scheduling, mobile computing

An overview of data warehousing and OLAP technology



March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional online transaction processing applications. This paper provides an overview ...

# OLAP and statistical databases: similarities and differences

Arie Shoshani

May 1997 Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

Online analytic processing (OLAP): Spreadsheets in RDBMS for OLAP

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Gregory Dorman, Nathan Folkert, Abhinav Gupta, Lei Shen, Sankar Subramanian

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(182.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

One of the critical deficiencies of SQL is lack of support for n-dimensional array-based computations which are frequent in OLAP environments. Relational OLAP (ROLAP) applications have to emulate them using joins, recently introduced SQL Window Functions [18] and complex and inefficient CASE expressions. The designated place in SQL for specifying calculations is the SELECT clause, which is extremely limiting and forces the user to generate queries using nested views, subqueries and complex joins ...

Industrial session: data warehousing and data mining: Bridging the gap between **OLAP** and SQL



Jens-Peter Dittrich, Donald Kossmann, Alexander Kreutz

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: R pdf(409.18 KB) Additional Information: full citation, abstract, references, index terms

In the last ten years, database vendors have invested heavily in order to extend their products with new features for decision support. Examples of functionality that has been added are top N [2], ranking [13, 7], spreadsheet computations [19], grouping sets [14], data cube [9], and moving sums [15] in order to name just a few. Unfortunately, many modern OLAP systems do not use that functionality or replicate a great deal of it in addition to other database-related functionality. In fact, the ga ...

10 OLAP: Hierarchical dwarfs for the rollup cube



Yannis Sismanis, Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos November 2003 Proceedings of the 6th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: Topdf(100.29 KB) Additional Information: full citation, abstract, references, index terms

The data cube operator exemplifies two of the most important aspects of OLAP queries: aggregation and dimension hierarchies. In earlier work we presented Dwarf, a highly compressed and clustered structure for creating, storing and indexing data cubes. Dwarf is a complete architecture that supports queries and updates, while also including a tunable granularity parameter that controls the amount of materialization performed. However, it does not directly support dimension hierarchies. Rollup and ...

Keywords: OLAP, aggregation, data cubes, dwarf cube, granularity, indexing, materialization, prefix elimination, structural redundancy, suffix coalescing, warehouses 11 Research papers: OLAP: Privacy preserving OLAP

Rakesh Agrawal, Ramakrishnan Srikant, Dilys Thomas

June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(357.72 KB) Additional Information: full citation, abstract, references

We present techniques for privacy-preserving computation of multidimensional aggregates on data partitioned across multiple clients. Data from different clients is perturbed (randomized) in order to preserve privacy before it is integrated at the server. We develop formal notions of privacy obtained from data perturbation and show that our perturbation provides guarantees against privacy breaches. We develop and analyze algorithms for reconstructing counts of subcubes over perturbed data. We als ...

12 An array-based algorithm for simultaneous multidimensional aggregates

Yihong Zhao, Prasad M. Deshpande, Jeffrey F. Naughton

June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.45 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Computing multiple related group-bys and aggregates is one of the core operations of On-Line Analytical Processing (OLAP) applications. Recently, Gray et al. [GBLP95] proposed the "Cube" operator, which computes group-by aggregations over all possible subsets of the specified dimensions. The rapid acceptance of the importance of this operator has led to a variant of the Cube being proposed for the SQL standard. Several efficient algorithms for Relational OLAP (ROLAP) have been d ...

13 Searching for dependencies at multiple abstraction levels

Toon Calders, Raymond T. Ng, Jef Wijsen

September 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(411.24 KB)

Additional Information: full citation, abstract, references, citings, index terms

The notion of roll-up dependency (RUD) extends functional dependencies with generalization hierarchies. RUDs can be applied in OLAP and database design. The problem of discovering RUDs in large databases is at the center of this paper. An algorithm is provided that relies on a number of theoretical results. The algorithm has been implemented; results on two real-life datasets are given. The extension of functional dependency (FD) with roll-ups turns out to capture meaningful rules that are outsi ...

**Keywords**: Data mining, functional dependencies, knowledge discovery, online analytical processing

14 Advanced SQL modeling in RDBMS

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Nathan Folkert, Abhinav Gupta, John Haydu, Lei Sheng, Sankar Subramanian

March 2005 ACM Transactions on Database Systems (TODS), Volume 30-Issue 1

**Publisher: ACM Press** 

Full text available: pdf(279.06 KB) Additional Information: full citation, abstract, references, index terms

Commercial relational database systems lack support for complex business modeling.

ANSI SQL cannot treat relations as multidimensional arrays and define multiple, interrelated formulas over them, operations which are needed for business modeling. Relational OLAP (ROLAP) applications have to perform such tasks using joins, SQL Window Functions, complex CASE expressions, and the GROUP BY operator simulating the pivot operation. The designated place in SQL for calculations is the SELECT clause, whi ...

Keywords: Excel, OLAP, analytic computations, spreadsheet

15	OLAP: An analysis of additivity in OLAP systems	_				
٨	John Horner, Il-Yeol Song, Peter P. Chen					
~	November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP					
	Publisher: ACM Press					
	Full text available: pdf(322,41 KB) Additional Information: full citation, abstract, references, index terms					
	Accurate summary data is of paramount concern in data warehouse systems; however, there have been few attempts to completely characterize the ability to summarize measures. The sum operator is the typical aggregate operator for summarizing the large amount of data in these systems. We look to uncover and characterize potentially inaccurate summaries resulting from aggregating measures using the sum operator. We discuss the effect of classification hierarchies, and non-, semi-, and fully- addi					
	Keywords: OLAP, additivity, data warehouse, metadata, summarization					
16	Research papers: OLAP: Efficient computation of multiple group by queries	_				
۹						
~	June 2005 Proceedings of the 2005 ACM SIGMOD International conference on					
	Management of data Publisher: ACM Press					
	Full text available: pdf(371.92 KB) Additional Information: full citation, abstract, references					
	Data analysts need to understand the quality of data in the warehouse. This is often done by issuing many Group By queries on the sets of columns of interest. Since the volume of data in these warehouses can be large, and tables in a data warehouse often contain many columns, this analysis typically requires executing a large number of Group By queries, which can be expensive. We show that the performance of today's database systems for such data analysis is inadequate. We also show that the pro					
17	Maintenance of data cubes and summary tables in a warehouse	_				
٩	Inderpal Singh Mumick, Dallan Quass, Barinderpal Singh Mumick					
•	June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2					
	Publisher: ACM Press					
	Full text available: pdf(1.58 MB)  Additional Information: full citation, abstract, references, citings, index terms					
	Data warehouses contain large amounts of information, often collected from a variety of independent sources. Decision-support functions in a warehouse, such as on-line analytical processing (OLAP), involve hundreds of complex aggregate queries over large volumes of data. It is not feasible to compute these queries by scanning the data sets					

each time. Warehouse applications therefore build a large number of summary tables, or

materialized aggregate views, to ...

18 A case for dynamic view management Yannis Kotidis, Nick Roussopoulos



December 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 4 Publisher: ACM Press

Publisher: ACM Fless

Full text available: pdf(892.57 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Materialized aggregate views represent a set of redundant entities in a data warehouse that are frequently used to accelerate On-Line Analytical Processing (OLAP). Due to the complex structure of the data warehouse and the different profiles of the users who submit queries, there is need for tools that will automate and ease the view selection and management processes. In this article we present DynaMat, a system that manages dynamic collections of materialized aggregate views in a data warehous ...

Keywords: Data cube, OLAP, data warehousing, materialized views

19 Query processing: Spatial hierarchy and OLAP-favored search in spatial data

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warehouse

Fangyan Rao, Long Zhang, Xiu Lan Yu, Ying Li, Ying Chen

November 2003 Proceedings of the 6th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(197.48 KB) Additional Information: full citation, abstract, references, index terms

Data warehouse and Online Analytical Processing(OLAP) play a key role in business intelligent systems. With the increasing amount of spatial data stored in business database, how to utilize these spatial information to get insight into business data from the geo-spatial point of view is becoming an important issue of data warehouse and OLAP. However, traditional data warehouse and OLAP tools can not fully exploit spatial data in coordinates because multi-dimensional spatial data does not have im ...

**Keywords**: spatial OLAP, spatial data warehouse, spatial hierarchy

20 OLAP: Evaluating XML-extended OLAP queries based on a physical algebra

Xuepeng Yin, Torben Bach Pedersen

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(206.65 KB) Additional Information: full citation, abstract, references, index terms

In today's OLAP systems, integrating fast changing data, e.g., stock quotes, physically into a cube is complex and time consuming. The widespread use of XML makes it very possible that this data is available in XML format on the WWW. Thus, making XML data logically federated with OLAP systems is desirable. In this paper, we extend previous work on the logical federation of OLAP and XML data sources by presenting a simplified query semantics, a physical query algebra and a robust OLAP-XML quer ...

Keywords: OLAP, XML, data integration, physical algebra, query semantics

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Amihai Motro. Superviews: Virtual integration of multiple databases. Transactions on Software Engineering, SE-13(7):785-798, July 1987.

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Merging Models Based on Given Correspondences - Rachel Pottinger University (2003) (5 citations) (Correct)

....directions. The first involves showing that the Merge result, when applied to models and mappings that are templates for instances, has an appropriate interpretation on instances. This will demonstrate the usefulness of Merge in specific applications such as data integration and view integration [13, 20]. In some of our experiments we encountered a complex structure in one model that expressed a similar concept to a complex structure in another model, but there was no obvious mapping for the individual elements even though the structures as a whole were similar. An open question is how best to ....

Motro, A. Superviews: Virtual Integration of Multiple Databases. Trans. on Soft. Eng., SE-13(7), 785-798.

Merging Models Based on Given Correspondences - Rachel Pottinger University (2003) (5 citations) (Correct)

....directions. The first involves showing that the Merge result, when applied to models and mappings that are templates for instances, has an appropriate interpretation on instances. This will demonstrate the usefulness of Merge in specific applications such as data integration and view integration [21, 31]. In some of our experiments, we encountered a complex structure in one model that is similar to a complex structure in another model. But rather than relating the elements by a complex expression, we wanted to relate individual elements but only in the context of that complex structure. An open ....

Motro, A. Superviews: Virtual Integration of Multiple Databases. Trans. on Soft. Eng., SE-13(7), 785-798.

Heterogeneous Active Agents, I: Semantics - Eiter, Subrahmanian, Pick (1999) (3 citations) (Correct)

....Community. There is now a great deal of work in mediated systems techniques. In this paragraph, we merely explain the relationship between code call conditions and existing work on data and software integration. For example, there have been several efforts to integrate multiple relational DBMSs [26, 72] and relational DBMSs, object oriented DBMSs and or file systems [36, 52, 89] However, to date, the semantics of mediators that take actions has not been explored. The work in this paper builds upon mediation efforts reported upon in our HERMES effort described previously in [20, 61, 61, 94, 63] ....

A. Motro. Superviews: Virtual Integration of Multiple Databases. IEEE Transactions on Software Engineering, 13 (7):785--798, 1987.

Query Answering in Inconsistent Databases - Bertossi, Chomicki (Correct)

....[44] 8.2 Data integration Assume we have a collection of (materialized) data sources S 1, S n, and a global, virtual database G, that integrates data from S 1, S n. According to the local as view approach, we can look at the data sources, S i, as views of the global schema G [59, 74, 65]. Now, given a query Q to G, one can generate a query plan that extracts the information from the sources [57, 58, 39] in the global as view approach, the global database is defined as a view over the data sources. Sometimes one assumes that certain ICs hold in the global system, and those ICs ....

Motro, A. Superviews: Virtual Integration of Multiple Databases. IEEE Transactions on Software Engineering, 1987, 13(7):785--798.

### Combining a Formal with an Example-driven Approach for.. - Geist, Sattler, Schmitt (Correct)

....approach we use the Generic Integration Model GIM which enables an efficient algorithm to derive an integrated schema in a user friendly data model. The data model GIM was firstly introduced in [SS95, SS96a] The extensional conflict as one main conflict is topic of many publications, e.g. DH84, Mot87, MNE88, Bra93, SGN93, TS93, KS95, NS96] They usually resolve this conflict directly in an object oriented model by using specialization. The original classes are often classes of the integrated schema enriched by new super subclasses and specialization relationships among them. DS96] for .....

A. Motro. Superviews: Virtual Integration of Multiple Databases. IEEE Transactions on Software Engineering, 13 (7):785--798, July 1987.

View Integration: A Step Forward in Solving Structural Conflicts - And (1992) (62 citations) (Correct)

....has to confirm, or deny, the correspondences proposed by the tool. **We** assume that knowledge of view correspondences is provided by users or the DBA to the view integration tool. **That** knowledge may be expressed using either declarative or procedural statements. **The latter approach is found in [26] [27], in the context of database integration.** Following Motro, the user specifies his global 10 schema by defining how it is built from the set of schemas of existing databases. **The** mapping specification uses a set of restructuring primitives (later called schema editing operations) This approach ....

A. Motro, "Superviews: Virtual Integration of Multiple Databases", IEEE Transactions On Software Engineering, Vol. SE-13, n 7, July 1987, 785-798

An Integration Method for Design Schemas - Mirbel, Cavarero (1996) (1 citation) (Correct)

....the result presentation phase. After that, we indicate the strategies for using this process. In the last section, we conclude. 2 Existing Work A lot of different work has been done on schema integration. This goes from works on the tools to help the designer to get two schemas without conflicts [1], to work on the formal presentation of the integration rules [2] An overview of the variety of existing work can be found in [3]. Generally, the integration process is divided in four phases. The first phase is the pre integration one. It consists in translating the schemas under study into a ....

.... These differences react on the structure chosen to represent the phenomenon, but also on the terminology used to name it (homonymy and synonymy conflicts) The less recent approaches describe how to merge several schemas with regard to a set of correspondences between the schemas under study [1, 6, 4]. These approaches were based on relational, functional and entity relationship models. The interschema assertions had to be supplied by the designer, and the conflict solving depended on the designer s common sense. Some recent approaches, in most cases based on object oriented models, proposed ....

A. Motro. Superviews: virtual integration of multiple databases. Transaction on software engineering, SE-13 (7):785--798, July 1987.

Using Conceptual Graph Theory to Support Schema Integration - Johannesson (1994) (4 citations) (Correct)

....using first order logic. Research in the area of schema integration has been carried out since the beginning of the 1980s. A comprehensive survey of the area can be found in [Batini86] Most of the 3 work has been done in the context of the relational model [Biskup86] the functional model [Motro87], or (some extended version of) the ER model, Larson89] Spaccapietra92] Johannesson93a] Johannesson93b] Johannesson93c] Most work has focused on how to merge a number of schemas given a set of proposed schema correspondences. In recent years, however, several researchers have also shown ....

A. Motro, "Superviews: Virtual Integration of Multiple Databases", IEEE Transactions on Software Engineering, vol. 13, no. 7, pp. 785-798, 1987.

Theoretical Foundations of Schema Restructuring in Heterogeneous.. - Albert (2000) (5 citations) (Correct)

....external databases were mapped to schemas in the common data model, and similar schema constructs from

di erent schemas were integrated into generalization hierarchies. Subsequently, many other systems were proposed or implemented with integration based on an outerjoin or generalization mechanism [1, 10, 11, 12, 13, 23, 31, 36, 33], aswell as systems which allowed for more general ways in which objects may be related or merged [5, 15, 24, 37, 42] The systems and techniques just referenced all provide support for what was referred to as data integration in the previous section. Data integration is the process of merging ....

Modelling Data Warehouses and OLAP Applications by.. - Lewerenz, Schewe.. (1999) (Correct)

....virtual multi database containing homonyms, synonyms and redundant data possibly organised in several different ways. There is, however, a transformation which maps an instance of this multi database to an instance of our warehouse schema so that the warehouse turns out to be a view (or superview) [9, 11] in the most general sense. Even if we assume a copy semantics, i.e. data in operative databases will be time stamped and added to the existing data in the view, this will not cause a significant change. The basic assumption of data warehouses being organised as separate databases then turns ....

A. Motro. Superviews: Virtual integration of multiple databases. IEEE ToSE, 13(7), 1987.

Modelling Data Warehouses and OLAP Applications by.. - Lewerenz, Schewe.. (1999) (Correct)

....virtual multi database containing homonyms, synonyms and redundant data possibly organized in several di erent ways. There is, however, a transformation which maps an instance of this multi database to an instance of our warehouse schema so that the warehouse turns out to be a view (or superview) [10, 12] in the most general sense. Even if we assume a copy semantics, i.e. data in operative databases will be time stamped and added to the existing data in the view, this will not cause a signi cant change. The basic assumption of data warehouses being organized as separate databases then turns into ....

A. Motro. Superviews: Virtual integration of multiple databases, IEEE ToSE, 13(7), 1987.

Conceptual Design and Development of Information Services - Feyer, Schewe, Thalheim (1998) (1 citation) (Correct)

....Information units depend on the database schema. They represent data in a standard, intuitive framework that allow high performance access. Information units modelling can be compared with the modelling of semistructured data. Then information units turn out to be generalized views on the database [3, 14]. The generalization should support data condensation and supplementary facilities to enable an adequate representation to the user. We restrict the rule system used for generating units from the database to the smallest possible system. The rule system can be extended by inclusion of di erent ....

A. Motro, Superviews: Virtual integration of multiple databases. IEEE ToSE, 13, 7, July, 1987.

Algebraic Graph-Based Approach to Management of Multi-Base.. - Diskin (1995) (6 citations) (Correct)

....federated database systems (FDBS) integration is a function regularly performed at different levels and by different services depending on the organization of the FDBS environment. The value of the problem is well known, various approaches, techniques and sometimes tools were proposed (see, eg, [7, 22, 35, 36, 30, 29, 26] and surveys [2, 27] In spite of the diversity of approaches, several common points can be well identified. Integration consists of schema integration composing a global schema from the set of local ones, and data integration computing virtual extension of the global schema. Schema ....

A. Motro. Superviews: Virtual integration of multiple databases. IEEE TOSE, 13(7):785–798, 1987.

Databases as Graphical Algebras: Algebraic Graph-Based.. - Diskin, Cadish (1996) (3 citations) (Correct)

....Schema integration is a main component of conceptual design which is itself a part of the overall activity of database design. This explains the significant interest in schema integration methodologies: a vast

diversity of various approaches, techniques and sometimes tools were proposed (see, eg, [10, 30, 42, 43, 40, 39, 36] and surveys [4, 37, 33] Moreover, to date the value of the issue has increased greatly due to the evident tendency of organizing modern (and of the nearest future) information systems on cooperative federal principals. Indeed, in the context of federated database systems (FDBS) integration is ....

A. Motro. Superviews: Virtual integration of multiple databases. IEEE TOSE, 13(7):785–798, 1987.

Resolving Fragmentation Conflicts In Schema Integration - Yann Dupont Laboratoire (1994) (8 citations) (Correct)

....show the interest of separating the conflict declaration and the conflict resolution. Finally, the conclusion analyzes possible extensions to our work. 3 2 Schema Comparison Procedural integration methodologies propose to successively modify input schemas, by using a set of operators [4] 10] [15], 24] to remove discrepancies and put them in conformity [1] No semantic verification can be performed and erroneous manipulations cannot be detected by the system. Moreover, this approach leaves to the user the responsibility of solving conflicts. On the contrary, assertion based methodologies ....

..... A semantic conflict between two related classes 1 occurs when the corresponding sets of real world objects are not exactly the same. This kind of conflict has been extensively dealt with in the literature and is usually solved with the use of the generalization (Is A) concept [4] 14] [15]. More recently, the multi instanciation concept or May Be A link [17] adds a new perspective. Moreover, the administrator can choose how to use this concept, among all possibilities, to solve semantic conflicts. A structural conflict occurs when related real world items are modeled with ....

Motro A., "Superviews: Virtual Integration of Multiple Databases", IEEE Transaction on Software Engineering, Vol. SE-13, n 7, July 1987, 785-798

A Basis for Interactive Schema Merging - Buneman, Davidson, Kosky.. (1992) (7 citations) (Correct)

....perform some sort of translation from potentially different underlying database models to a common intermediary model. Various approaches to schema merging have been proposed; see [2] for a survey. These vary from sets of tools for manipulating two schemas into some form of consistency ([3, 4]) to algorithms which take two schemas together with some constraints and produce a merged schema. In practice a method that lies somewhere between these two extremes is usually desirable: a certain amount of user intervention is inevitable, though, once any conflicts have been resolved and the ....

....says that arrows are, in some sense, preserved by specialization, so that, if p is a specialization of q and q has an a arrow of class s, then p also has an a arrow with class at least as specific as s. These axioms are equivalent to those given for functional schemas in [4] and also in [3] (though the latter used unlabeled arrows) Let us consider the ER diagram of a University Business Office database shown in figure 3. The diagram indicates that there are two ways of classifying University Employees (UE) as research employees (Res UE) or as academic employees (Ac UE) Teaching ....

[Article contains additional citation context not shown here]

A. Motro, "Superviews: Virtual Integration of Multiple Databases," IEEE Transactions on Software Engineering, vol. SE-13, pp. 785--798, July 1987.

Schema Integration and Query Processing for Multiple Object.. - Chen, Kuo, Liu (1995). (1 citation) (Correct)

....[24] this approach developed integration rules for a variety of data models. A generic description of schema correspondences among different data models was provided. Other approaches defined a set of operators to build a virtual integration of multiple databases or to customize virtual classes [19], 20] 22] Yet another approach asserted that the different constructs of component schemas be standardized before the integration. Several transformation rules were then proposed for the view integration process [12] In this paper, we present a schema integration mechanism to achieve a ....

....generic data model. **Besides**, we consider the construction of class hierarchies in the integrated schema, which was not discussed in [24] In the process of schema integration, we use integration operators to restructure and integrate the component schemas. **Different from the operators provided in [19] and [22] our class** 

restructuring operators can be used to restructure the attributes and class hierarchies of a class. Thus, the conflicts in component schemas can be resolved before the integration. The class integration operators can be used to integrate the information in two classes or a set ....

A. Motro. "Superviews: Virtual integration of multiple databases". IEEE Transactions on Software-Engineering, pages 785--798, 1987.

Integration of Heterogeneous Object Schemas - Jia-Ling Koh And (1993) (4 citations) (Correct)

....different data models this work was partially supported by the Republic of China National Science Council under Contract No. NSC 83 0408 E 007 030. was provided. Other approaches defined a set of operators to build a virtual integration of multiple databases or to customize virtual classes [18], 23] 24] Yet another approach asserted that the different constructs of component schemas be standardized before the integration. Several transformation rules were then proposed for the view integration process [13] In this paper, we present a schema integration mechanism to achieve a ....

....generic data model. **Besides**, we consider the construction of class hierarchies in the integrated schema, which was not discussed in [20] In the process of schema integration, we use integration operators to restructure and integrate the component schemas. **Different from the operators provided in [18] and [24] our class restructuring operators can be used to restructure the attributes and class hierarchies of a class. Thus, the conflicts in component schemas can be resolved before the integration. <b>The** class integration operators can be used to integrate the information in two classes or a set ....

[Article contains additional citation context not shown here]

A. Motro, Superviews: Virtual integration of multiple databases, IEEE Transactions on Software Engineering, 13 (7) (1987) pp.785-798.

A Formal Framework for Integrating Inconsistent Answers.. - Amihai Motro Department (1993) (2 citations) Self-citation (Motro) (Correct)

....that will allow different database systems to exchange information. For the most part, this research has been either in the context of view integration as part of the database design process (e.g. 4, 9, 12] or in the context of systems for virtual merging of independent databases (e.g. [13, 14, 7]) For overviews of this area, see [2, 5] Compared to this focus on intensional inconsistency, the equally challenging problem of extensional inconsistency has received much less attention. Extensional inconsistencies surface only after all intensional inconsistencies have been resolved, at a ....

....3. A collection (D 1; C 1; d 1) D n; C n; d n) of databases. 4. A collection (D; D 1) D; D n) of scheme mappings. 5. A collection (C; C 1) C; C n) of constraint mappings. This definition may be considered a formalization of virtual databases defined in [7]. Scheme mapping may be considered an abstraction of the different solutions that have been advanced to the task of relating global schemes to individual schemes (e.g. 7, 1, 13] Note that the mappings from D and C to the individual databases are not necessarily total; i.e. not all views ....

[Article contains additional citation context not shown here]

A. Motro. Superviews: Virtual integration of multiple databases. IEEE Transactions on Software Engineering, SE-13(7):785--798, July 1987.

<u>Multiplex: A Formal Model for Multidatabases and Its Implementation - Motro (1998) (14 citations)</u> **Self-citation** (Motro) (Correct)

....from a collection of distributed, heterogeneous and overlapping databases. 1 A standard approach to this problem has been to integrate the independent databases by means of a comprehensive global scheme that models the information contained in the entire collection of databases (for example, [23, 38, 7, 30]) This global scheme is fitted with a mapping that defines the elements of the global scheme in terms of elements of the schemes of the member databases. Algorithms are designed to interpret queries on the global scheme. Such global queries are translated (using the information captured in the ....

....in one database with equivalent views (or satisfaction of equivalent constraints) in another database. In a multidatabase, the former database is the global database, and the latter is a member database. This definition may be considered a formalization of virtual databases defined in [30]. Scheme mapping may be considered an abstraction of different solutions that have been advanced to the task of relating global schemes to schemes of member databases (e.g. 23, 38, 7, 30] 11 3.5 Integrability Assumptions The purpose of multidatabases is to integrate information from ....

[Article contains additional citation context not shown here]

A. Motro. Superviews: Virtual integration of multiple databases. IEEE Transactions on Software Engineering, SE-13(7):785-798, July 1987. 27

SCHEMACOERCION: USING DATABASE META-INFORMATION TO .. - The University Of (1997) (Correct)

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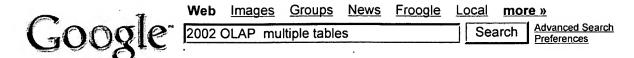
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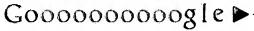
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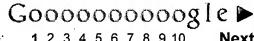
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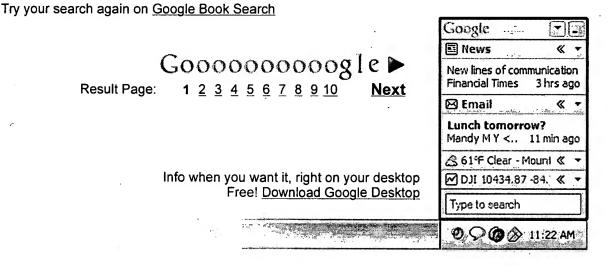
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